

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A hydrogen storage material comprising magnesium hydride, wherein the magnesium hydride is stabilized in ~~the~~ a fluorite crystal structure.
2. (Currently Amended) A ~~The~~ hydrogen storage material according to claim 1, ~~characterized in that~~ wherein the magnesium is at least partly substituted by an element such that the magnesium hydride is stabilized in the fluorite structure.
3. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 2, ~~characterized in that~~ wherein the element comprises an ion with a size that is similar to the size of Mg^{2+} in a VIII coordination.
4. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 2, ~~characterized in that~~ wherein the element comprises an ion with a radius in the range of 0.090-1.120 nm.
5. (Currently Amended) A ~~The~~ hydrogen storage material as claimed in claim 2, ~~characterized in that~~ wherein the element comprises an

ion selected from the group ~~comprising~~ consisting of Sc^{3+} , Ti^{3+} , RE^{3+} (Rare Earth elements), Y^{3+} , Li^{+} , Zn^{2+} , Co^{2+} , Fe^{2+} , Mn^{2+} , In^{3+} , Zr^{4+} , and Hf^{4+} .

6. (Currently Amended) ~~A~~ The hydrogen storage material as claimed in claim 1, ~~characterized in that it~~ wherein the hydrogen storage material comprises an amount of a catalytically active material.

7. (Currently Amended) ~~A~~ The hydrogen storage material as claimed in claim 1, ~~characterized in that~~ claim 6, wherein the catalytically active material comprises at least one metal selected from the group consisting of Ir, Ni, Pd, Pt, Rh, and Ru.

8. (Currently Amended) ~~A~~ The hydrogen storage material as claimed in claim 1, ~~characterized in that~~ claim 6, wherein the catalytically active material comprises palladium or rhodium.

9. (Currently Amended) An electrochemically active material, ~~characterized in that~~ wherein the material comprises a hydrogen storage material as claimed in claim 1.

10. (Currently Amended) An electrochemical cell ~~at least~~ comprising a positive electrode and a negative electrode, ~~characterized in that~~ wherein the negative electrode comprises a hydrogen storage material as claimed in claim 1.

11. (Currently Amended) Electronic equipment powered by at least

one electrochemical cell, ~~characterized in that~~wherein the at least one electrochemical cell is an electrochemical cell as claimed in claim 10.